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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/596,022	05/25/2006	Toshiharu Furukawa	FIS920030339US1	1812	
32074 INTERNATIO	7590 12/30/200 ONAL BUSINESS MAG	EXAM	EXAMINER		
DEPT. 18G BLDG. 321-482 2070 ROUTE 52 HOPEWELL JUNCTION, NY 12533			GEBREYES	GEBREYESUS, YOSEF	
			ART UNIT	PAPER NUMBER	
			2811	2811	
			NOTIFICATION DATE	DELIVERY MODE	
			12/30/2009	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

EFIPLAW@US.IBM.COM

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)					
10/596,022	FURUKAWA ET AL.					
Examiner	Art Unit					
YOSEF GEBREYESUS	2811					

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress			
THE REPLY FILED 24 November 2009 FAILS TO PLACE THIS	APPLICATION IN CONDITION F	OR ALLOWANCE.				
☑ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies (1) an amendment, affidavit, or other evidence, with places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:						
a) The period for reply expiresmonths from the mailing b) The period for reply expires on: (1) the mailing date of this no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 766.07(f	dvisory Action, or (2) the date set forth ter than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	date of the final rejection	n.			
Extensions of time may be obtained under 37 CFR 1.136(a). The date thave been filled is the date for purposes of determining the period of valued to five 1,17(a) is calculated from: (1) the expiration date of the sest forth in (b) above, if checked. Any pely received by the Office there may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL.	ension and the corresponding amount of hortened statutory period for reply origi	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as			
The Notice of Appeal was filed on A brief in complifiling the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with AMENDMENTS.	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the				
	sideration and/or search (see NOT w); er form for appeal by materially red	ΓE below); ducing or simplifying the				
NOTE: See continuation sheet. (See 37 CFR 1.11  4.	6 and 41.33(a)). 11. See attached Notice of Non-Con	mpliant Amendment (l				
non-allowable claim(s).  No for purposes of appeal, the proposed amendment(s): a) (in the new or amended claims would be rejected is proving the status of the claim(s) is (or will be) as follows:  Claim(s) allowed:  Claim(s) objected to:  Claim(s) withdrawn from consideration:		l be entered and an e	xplanation of			
AFFIDAVIT OR OTHER EVIDENCE  8. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).						
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under appea and was not earlier presented. Se	al and/or appellant fail ee 37 CFR 41.33(d)(1	s to provide a			
<ol> <li>The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER</li> <li>The request for reconsideration has been considered but</li> </ol>		•				
12. Note the attached Information Disclosure Statement(s). (13. Other:	PTO/SB/08) Paper No(s)					
/Lynne A. Gurley/ Supervisory Patent Examiner, Art Unit 2811						

Continuation of 3. Note: Regarding claim 1; Applicant argues that the prior art does not teach or suggest the following feature. The layer 105 of the prior art (Rossner) can not be considered as a substrate. However, the examiner respectfully disagrees. The examiner considered the layer in which the semiconductor devices are fabricated to be a substrate. Therefore, the reickion still stands.

Regarding claim 3; Applicant argues that the carbon nano tubes do not form open cylinder structure. However, examiner respectfully disagrees. The final structure of the claimed invention after a trench conductor is filled (claim 1) does not have an open cylinder structure. However, the pior art disloces the carbon nano tubes 107 are formed in the hole 106 and before the layer 109 is formed the carbon nanotubes form an open cyclinder in the regions between 104 and 107.

Regarding claim 11; the limitation "forming an open cylinder in lining said trench" changed the scope of the invention, due to the omission of the limitations "side walls" and "through said layer of trench dielectric" from the original claim 3, thus raising new issues which requires further search and/or reconsideration.